GE Healthcare
Life Sciences

MicroCal™ VP-Capillary DSC Routine Maintenance

Regular maintenance by the user of MicroCal VP-Capillary DSC system is essential for performing high quality experiments and for obtaining high quality results. Cell cleanliness has a significant impact on data quality. Some of the required maintenance procedures are monitored by the software. For these procedures, the software will automatically issue a visual or audible alert to let you know when it is time to perform maintenance.

Daily/After every run

- Centrifuge or filter all solutions before use to avoid particles and precipitates in the cell or syringe.
- Run at least one of the cleaning methods after every run to clean the DSC cells. Set up cleaning by clicking the ***Advanced*** tab on the left hand side of the ***Autosampler setup*** box. Select the ***Sample Parameters*** tab and check the option ***Clean before Next Sample*** under ***Cleaning Options*** for each sample run. MicroCal VP-Capillary DSC system has a characteristic baseline when both cells are clean and filled with water. Repeatable baselines are indicative of clean, well filled cells. Use cleaning solution if cleaning with detergent is not sufficient.

Weekly

- Refill the three bottles on the solvent reservoir station of the Auto Sampler: de-ionized water in Solvent Reservoir 1, 20% Contrad™ 70 or 14% Decon™ 90 in Solvent Reservoir 2 and cleaning solution in Solvent Reservoir 3. Both bottles for the rinsing solution should be filled with de-ionized water.

When necessary

- Every 250 to 300 runs, replace valve needle seal. A software notice will appear when it is time to perform this procedure.
- Every 250 to 300 runs, or sooner if the seal is leaking, replace the syringe plunger. A software notice will appear when it is time to perform this procedure.
- Every 600 to 900 runs, or as needed when the syringe is bent or corroded, replace the syringe.

Operation	Necessary reagents, parts, and tools
Cell cleaning	20% Contrad 70 or 14% Decon 90 Cleaning solution (5% sodium hydroxide (NaOH) and a sodium hypochlorite solution (NaOCl))
Replacing the valve needle seal/ Replacing the syringe plunger/ Replacing the syringe	Preventive Maintenance parts kit, KIT190050 Simple hand tools and common laboratory glassware and reagents
System verification	MicroCal VP-Capillary DSC RNase Test Kit, 28429062

References

For further instructions for maintaining MicroCal VP-Capillary DSC system, refer to:

- MicroCal VP-Capillary DSC System Cleaning instruction (28-9897-40)
- MicroCal VP-Capillary DSC System User Manual (28-9887-73)

Preventive maintenance

GE Healthcare provides preventive maintenance service and will be happy to discuss the maintenance interval most suitable for your situation. Contact your local representative or find your local contact details at www.gelifesciences.com/contact.

Maintenance calendar for MicroCal VP-Capillary DSC

Weekly	When necessary			PM*	Notes	Date (DD-MMM-YY)	Sign
Refill solvent reservoir station bottles	Replace valve needle seal (every 250-300 runs)	Repalce the syringe plunger (every 250-300 runs)	Replace the syringe (every 600-900 runs)	By GE Healthcare representative			
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*Preventive Maintenance

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